

BEST AVAILABLE COPY

Omni - MVA Hardware Overview



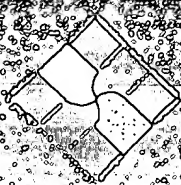
XYLAND



XxTAN

What is it?

- ✓ 10 gigabit frame switch
- ✓ 6.6 million frames per second
- ✓ Compatible with OmniSwitch & OmniCell
 - User can save existing modules
- ✓ Optimized for 100BaseTx Ethernet
- ✓ OmniCell backplane



XYLAN

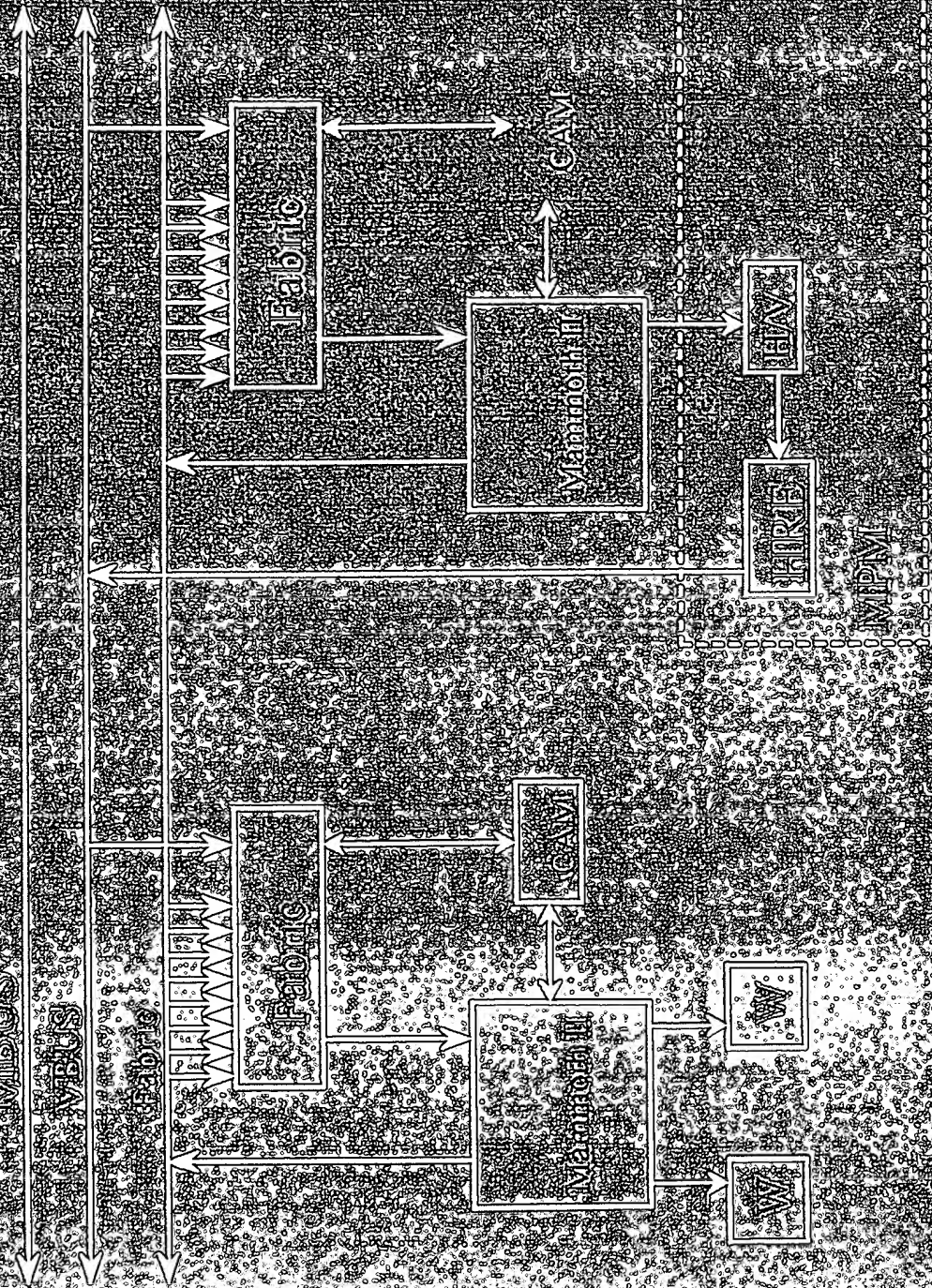
What's needed?

✓ New ASICs

- ❑ Frame Fabric
- ❑ "Super" CAM
- ❑ Mammoth II

✓ New Modules

- ❑ MPM
- ❑ 100 BaseTX
- ❑ Gigabit Ethernet
- ❑ 24-32 port 10BaseT





XILIAN

Frame Fabric

✓ Eight 1.24 gigabit links

■ 16 bits 80 Mhz, GTL

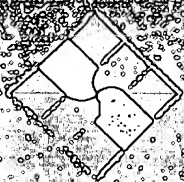
✓ VBUS format

✓ VBUS claim process

✓ "real" VBUS as well

■ Interoperability with OmniSwitch cars

✓ Synchronous design



XTREME

"Super" CAM

✓ Lookup every 5 clocks

✓ Dual-ported

■ Fabric & Mammoth ports

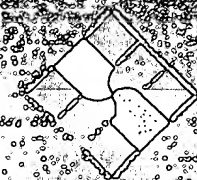
✓ Eliminate command overhead



Mammoth III

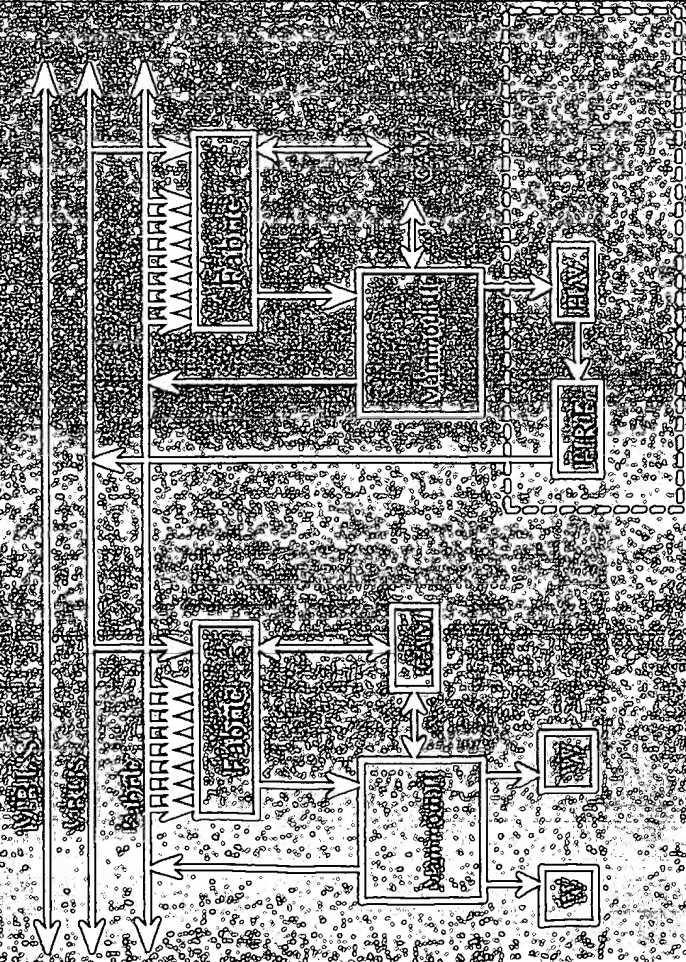
XYLAN

- ✓ Modified two HBUS to use fabric
- ✓ Modified for new CAM



XYLAN

Fabric Operation



✓ Claiming decision made every 5 clocks

□ 6.6 Million/sec

✓ Each slot gets transmit opportunity every 40 clocks

✓ Fabric has internal buffering for all links



XyLAN

Backward Compatibility

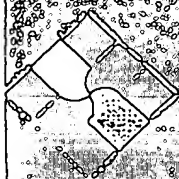
- ✓ Enabled by use of OmniCell backplane
- ✓ New MPM acts as a bridge
 - 1.24 gigabits bandwidth
- ✓ Unused links available for OmniCell



XYLAN

New MPM

- ✓ Based on current MPM design
- ✓ Addition of Fabric and Mammoth-II
 - ✓ HRE support
 - Conversion of HBUS to VBUS
- ✓ RMON option
 - Full 10 levels



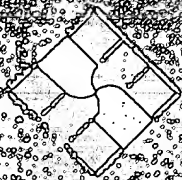
Xtreme

New Switching Modules

✓ 8 port 100BaseTx

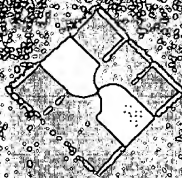
✓ 32 port 10BaseT

✓ 1 port Gigabit Ethernet



XYTANI

Cost Targets



X²YLAN

Packaging

- ✓ 5 and 9 slot chassis
- ✓ 1.4" slot pitch
- ✓ Dual load sharing power
- ✓ Hot swap fans, power, modules

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.